

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v204)**

1. Solve the equation.

$$(2x + 5)(7x - 9) = 0$$

2. Expand the following expression into standard form.

$$(5x + 4)^2$$

3. Expand the following expression into standard form.

$$(7x - 5)(7x + 5)$$

4. Expand the following expression into standard form.

$$(8x + 9)(3x - 4)$$

5. Factor the expression.

$$x^2 + 8x + 15$$

6. Solve the equation with factoring by grouping.

$$18x^2 + 12x + 15x + 10 = 0$$

7. Factor the expression.

$$9x^2 - 49$$

8. Solve the equation.

$$10x^2 - 67x + 70 = 3x^2 + 4x - 2$$